

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number
WO 2004/088850 A1

(51) International Patent Classification⁷: **H03M 7/30**,
H04L 29/06

(74) Agent: **MAGNUSSON, Monica**; Ericsson AB, Tor-
shamnsgatan 23, S-164 80 Stockholm (SE).

(21) International Application Number:
PCT/SE2004/000475

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(22) International Filing Date: 26 March 2004 (26.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0300973-5 1 April 2003 (01.04.2003) SE

(71) Applicant (for all designated States except US): **TELE-
FONAKTIEBOLAGET LM ERICSSON (publ)**
[SE/SE]; Torshamnsgatan 23, S-164 83 Stockholm (SE).

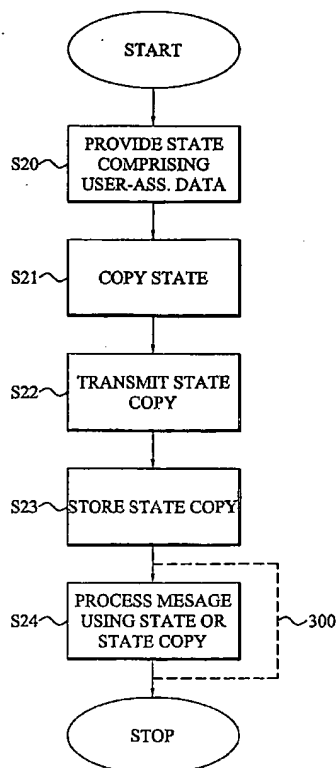
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HANNU, Hans**
[SE/SE]; Batterivägen 12, S-976 31 Luleå (SE).
CHRISTOFFERSSON, Jan [SE/SE]; Stenåsvägen
13, S-975 96 Luleå (SE).

[Continued on next page]

(54) Title: STATE-MEDIATED DATA SIGNALING USED FOR COMPRESSION IN TELECOMMUNICATION SERVICES



(57) Abstract: The invention relates to message-based communication between at least two units (100; 200) participating in a communications session. A first communications unit (100) generates and stores a state (10) comprising unit-associated data applicable for multiple messages to be communicated between the unit (100) and a second unit (200). A copy of this state (10) is then transmitted to the second unit (200), where it is stored. The state (10) and state copy can now be used in message processing for the purpose of reducing the message size and reducing utilization of communications resources. Data contained in the state (10) or state copy and found in the message (m1) is removed from the message prior transmission thereof. The resulting reduced-size message (m1'USD) is transmitted to the receiving unit, where the message (m1'USD) is anew processed by re-entering the data, removed by the transmitting unit, into the message (m1'USD) using the state copy or state. The original message (m1) is then recreated.

**Declarations under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT,

LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designation US
- of inventorship (Rule 4.17(iv)) for US only
- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.